(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 44500-00342

Total Pages in this Submission 56

TO THE COMMISSIONER FOR PATENTS

Mail Stop Patent Application P.O. Box 1450 Alexandria, VA 22313-1450

Alexandria, VA 22313-1450	
Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application entitled:	on for an
INDUSTRIAL PROCESS FAULT DETECTION USING PRINCIPAL COMPONENT ANALYSIS	8984 8984
and invented by:	- 62 - 62
Gary L. Jahns, YiXin Zhang and Anthony Peter Palladino	2226
If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:	
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:	
Which is a: Continuation Divisional Continuation-in-part (CIP) of prior application No.:	
Which is a: Continuation Divisional Continuation-in-part (CIP) of prior application No.:	
Enclosed are:	
Application Elements	
1. Filing fee as calculated and transmitted as described below	
2. Specification having pages and including the following:	
a. 🗵 Descriptive Title of the Invention	
b. Cross References to Related Applications (if applicable)	
c. Statement Regarding Federally-sponsored Research/Development (if applicable)	
d. Reference to Sequence Listing, a Table, or a Computer Program Listing Appendix	
e. 🗵 Background of the Invention	
f. 🗵 Brief Summary of the Invention	
g. 🗵 Brief Description of the Drawings (if filed)	
h. 🗵 Detailed Description	
i. ⊠ Claim(s) as Classified Below	
j. 🗵 Abstract of the Disclosure	

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Application Elements (Continued) 3. \(\rightarrow\) Drawing(s) (when necessary as prescribed by 35 USC 113) a. 🗆 Formal Number of Sheets b. 🛛 Informal Number of Sheets 8 ☑ Oath or Declaration a. \(\bar{\sigma} \) Newly executed (original or copy) Unexecuted b. 🔲 Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only) c. 🔲 With Power of Attorney Without Power of Attorney DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b). 5. Incorporation By Reference (usable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein. ☐ CD ROM or CD-R in duplicate, large table or Computer Program (Appendix) 7. Application Data Sheet (See 37 CFR 1.76) Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included) a. Computer Readable Form (CFR) b. Specification Sequence Listing on: i. 🗆 CD-ROM or CD-R (2 copies); or ii. 🔲 Paper c. Statement(s) Verifying Identical Paper and Computer Readable Copy **Accompanying Application Parts** Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(B) Statement (when there is an assignee) 11. English Translation Document (if applicable) ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Certificate of Mailing ☐ First Class Express Mail (Specify Label No.): EV338034347US

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	Accompanying Application Parts (Continued)							
17.	X	Applicant claims small entity status. See 37 CFR 1.27.						
		☐ (Optional) Small Entity Statement(s) - Specify Number of Statements Submitted:						
18.		Additional Enclosures (please identify below):						
		·						
		Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)						
19.		Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.						
		Warning						
	An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.							

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Fee Calculation and Transmittal

CLAIMS AS FILED						
For	#Filed	#Allowed	#Extra		Rate	Fee
Total Claims	43	- 20 =	23	×	\$9.00	\$207.00
Indep. Claims	3	- 3 =	0	×	\$42.00	\$0.00
Multiple Dependent Claims (check if applicable)					\$0.00	
					BASIC FEE	\$375.00
OTHER FEE (specify purpose)					\$0.00	
					TOTAL FILING FEE	\$582.00

A check in the amount of

\$582.00

to cover the filing fee is enclosed.

☑ The Director is hereby authorized to charge and credit Deposit Account No. as described below.

50-1419

described below.

☐ Charge the amount of

as filing fee.

☑ Credit any overpayment.

△ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.

☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: September 10, 2003

25231

PATENT TRADEMARK OFFICE

Robert B. Berube, Esq.

Robert B. Berube, Esq Reg. No. 39,608

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CC:

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CERTIFICATE OF Applicant(s): Jahns et a	MAILING BY "EXPRESS N I.	MAIL" (37 CFR 1.10)	Docket No. 44500-00342
Serial No. Not Yet Assigned	Filing Date September 10, 2003	Examiner Not Yet Assigned	Group Art Unit Not Yet Assigned
Invention: "Industrial Process Fault	Detection Using Principal Compo	nent Analysis"	
I hereby certify that th	is Pat. Trans.;Pat. Appl.;Dcl.;R	ecrd Form; Assg.; Infor. Draw.; P (Identify type of correspondence) ce "Express Mail Post Office to	
,37 CFR 1.10 in an en	velope addressed to: Director of	the United States Patent and T	rademark Office, P.O. Box
1450, Alexandria, VA	22313-1450 onSe	eptember 10, 2003 (Date)	
		Daxmara Sal	
		(Signature of Person Mailing	Correspondence)
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	Note: Each paper must ha	ave its own certificate of mailing.	